

THE LOGGER'S BARK

1916 - RADIO CLUB of TACOMA - 2019

MARCH, 2019 VOLUME 16, ISSUE 3 @Radio Club of Tacoma W7DK

General Meeting Lunch Menu Situation & Refreshments Fund

Isn't it a great time of year when the clocks change back to normal and the sun finally comes out to give us all a hint of Spring to come? I love this time of year! But there's not been a lot of love lately for the lunch menu situation at Eagles Aerie #3 where we hold our General Meeting every first Saturday of the month.

Beginning in January, the Eagles kitchen manager and cook, Kat, fired up the first-ever RCT Lunch Menu offering three kinds of sandwiches, choices of cheese and condiments, and a bag of chips – all for only \$6 (plus a gratuity if you felt like tipping Kat for her efforts). That first meeting of 2019 seemed to go well – something like 12 lunch orders went out to members; not bad considering it was the first time and new to everyone.

But February brought a surprise. Kat forgot to go shopping before our meeting day, and had to scramble to come up with sandwiches for our group. She really came through though, with grilled cheese sandwiches, French fries, and soup – all made with ingredients on hand. There was a bit of grumbling on the part of those hoping for the turkey or ham sandwiches but Kat ended up making sixteen lunch plates despite the disappointment. March, however, was a disaster. The kitchen was again lacking proper supplies, and on top of that Kat was not feeling well. All that was made available was chili dogs – not a great choice for those with vegetarian preferences or simply not in the mood for a giant boiled Costco hot dog. I personally felt a bit embarrassed and felt badly for those who had planned on lunch at the meeting but who couldn't stomach the chili dog offering. I was among them, as was Anne N7ANN, who kindly drove down to Starbucks to get us each a proper sandwich.

Earlier this week, I took some time and met with Kat, kitchen manager, to express our collective concern that either the Eagles' kitchen offer a consistent menu as had been promised or offer nothing at all and we'd go back to our long-standing history of snacks for meetings. Kat has assured me that she really does intend to get back on track with what she had promised us back in December when we cooked up the whole idea.

So please rest assured that the menu attached to this month's Logger's Bark (*last page*) will in fact be valid and offered to all of us at the April meeting as promised. Hopefully Kat will continue to provide the yummy sandwiches as

THE PRESIDENT'S CORNER



DAVE W7UUU

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As always, my sincere thanks to all who contributed to making the Logger's Bark a great newsletter each month.

P. J. Hicks, N7PH, editor

Don't forget! Lunch sandwiches are now being served before the meeting. See last page.

had been promised, and those planning for a sandwich lunch will have one available.

That brings me to another concern... the Refreshments Fund. While the Aerie offers sandwiches and chips for sale and provides a gratuity jar, we still have “club provided” refreshments in the form of juice, coffee, cookies, home-baked things like brownies, and often large bags of chips in the big serving bowl. On average, the club provides \$10 to \$15 worth of “free” goodies, as chosen, purchased, and often baked by Refreshments Committee Manager Anne N7ANN. An odd trend has emerged in recent months, even going back to before we had the sandwich choices. It seems that hardly anyone is putting money in the refreshments fund container anymore. March’s meeting turned in \$2.50, February \$1, and some months back, there was a net return of TWENTY FIVE CENTS. I’m not sure why this is? So a gentle reminder: if you eat, drink, and enjoy the “free” refreshments such as potato chips, cookies, baked goods, or juice please consider making a small donation to the “W7DK Refreshments Fund”. In fact, we’ve made it even easier with a brand new canister with bright red lid that will sit smack dab in the middle of the refreshments (see photo of the new canister below). Hopefully this will serve as a reminder. Please contribute to the nice pretty new red-lid container sitting right there in the middle of the refreshments table.

Wishing you all a great run-up to Spring and I’ll see you at the next General Meeting, lunch menus in hand!

Dave,
W7UUU



GADGET REVIEW - Elenco CM1555 Digital Capacitance Meter

A year or so ago there was a lot of buzz around the clubhouse surrounding the many Chinese made inexpensive capacitance meters. Since then there have been many internet/published reviews of the various meters offered. Most agree that while not quite lab quality they provide enough accuracy for the average casual builder or experimenter; but possibly not the amateur designer. I tried several of the meters but was vaguely dissatisfied and so I shopped around for a better meter. I purchased the Elenco CM1555 Digital meter and have been very satisfied with it. I also notice that several of the club gurus also use this meter thus validating my choice. I guess... hi hi.

My one complaint is that the somewhat rounded bottom of the meter's protective case allows the meter to easily rock; less so without the protective case but all in all it could be more stable. Though not a big deal!



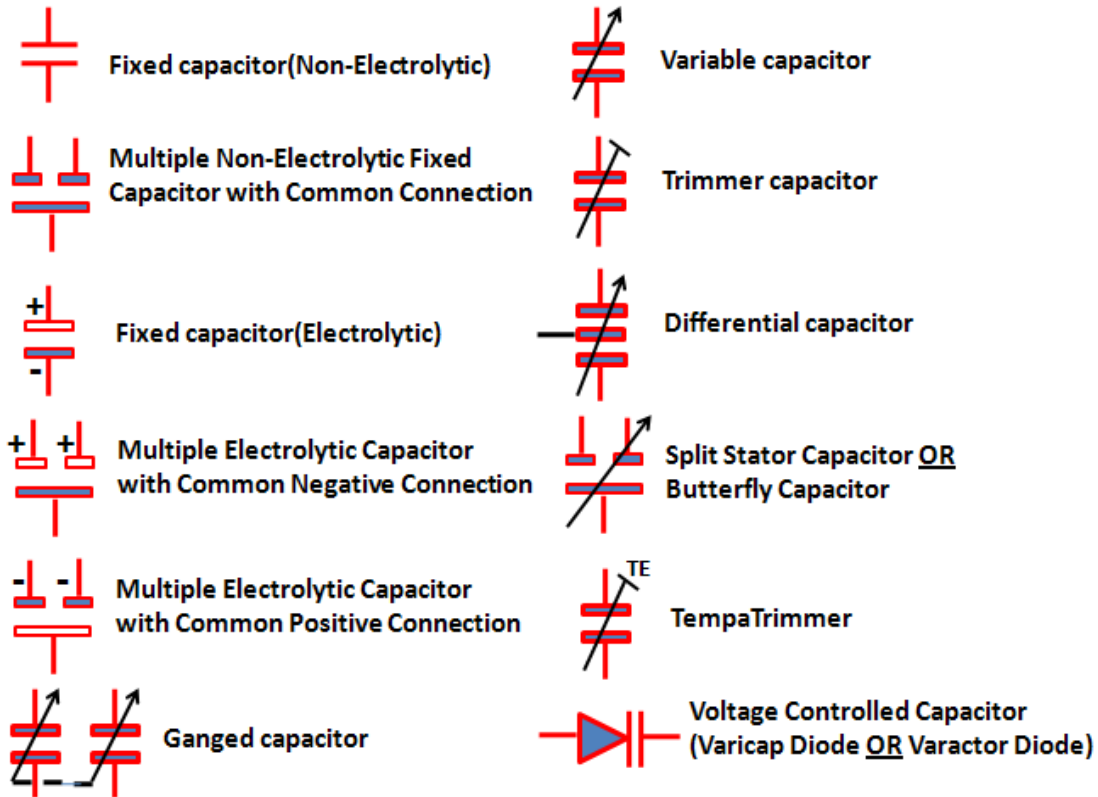
- Measures capacitors from .1pF to 20,000uF
 - 3 1/2 Digit LCD readout with unit indicator
 - Zero control for test lead compensation
 - Banana jack leads and special insertion jack included
 - Compact size even in rubber protective case with tilt stand
 - Test Leads Included.
 - \$45.00 to \$50.00 on eBay or Amazon. Shop around for best price.
- Operates on (1) 9V battery (included)

<https://www.amazon.com/Elenco-CM1555-Digital-Capacitance-Meter/dp/B0002HDTDQ>



P. J. Hicks, N7PH

CAPACITOR SYMBOLS



Standard Capacitor Values (-10%)						
10pF	100pF	1000pF	.010uF	.10uF	1.0uF	10uF
12pF	120pF	1200pF	.012uF	.12uF	1.2uF	
15pF	150pF	1500pF	.015uF	.15uF	1.5uF	
18pF	180pF	1800pF	.018uF	.18uF	1.8uF	
22pF	220pF	2200pF	.022uF	.22uF	2.2uF	22uF
27pF	270pF	2700pF	.027uF	.27uF	2.7uF	
33pF	330pF	3300pF	.033uF	.33uF	3.3uF	33uF
39pF	390pF	3900pF	.039uF	.39uF	3.9uF	
47pF	470pF	4700pF	.047uF	.47uF	4.7uF	47uF
56pF	560pF	5600pF	.056uF	.56uF	5.6uF	
68pF	680pF	6800pF	.068uF	.68uF	6.8uF	
82pF	820pF	8200pF	.082uF	.82uF	8.2uF	
0.082nF	0.82nF	8.2nF	82nF	820nF	8200nF	

Builders Corner—Zero Beat Tuning Aid by P. J. Hicks, N7PH

I love CW. I'm terrible at it. I'm not at all musical. I am visually oriented. I'm also pretty much tone deaf and also hearing impaired so I tend to tune in a CW signal to whatever tone yields the best volume and is pleasant sounding; 659 Hz. (E5) for me. That is sometimes slightly off frequency from the sending station... I get close but not spot on.

The old timers tell you to zero beat the received signal as close as possible to 1. ensure your signal is within the other station's passband and 2. to use as little bandwidth as needed to hold a QSO. All well and good for the young lions. Some of us old guys need a bit of help. Enter the **Grandson of Zerobeat**. <http://wb9kzy.com/gzb.htm> I decided to build and try this \$26.00 kit after stumbling across it while surfing the net looking for other information. It seemed to offer a low cost and accurate tuning aid that was visual in nature.

The kit arrived in a few days and was all present and accounted for. The PCB and all electronic parts are supplied except for a pushbutton switch, a 3.5mm audio input jack, a 12Vdc power jack and a project box/case. Assembly instructions are via the webpage as is typical of kits these days. The build was easy and took me about an hour. *It actually took me several hours as I made some significant modifications to my kit's case mounting and LED arrangement.* The Grandson of Zerobeat works as advertised and I am pleased with its performance and usefulness. When set to your preferred sidetone frequency and the signal centered only the red 'Signal' and green 'Centered' LEDs (original kit) will be lit. I love the dancing LED lights! https://www.youtube.com/watch?v=jlqEHN_2tD0 and https://www.youtube.com/watch?v=e_BPX9_mRtk for YouTube videos of building and operating the zero beat unit.

Some of the features;

- PCB board size 2.1 x 1.7 inches
- Offset/center frequency - 400 to 1200 Hz
- Machined pin IC sockets supplied
- LED display array supplied
- One pot audio detector setting
- Center tuning, +/- 10 Hz



The Grandson of Zerobeat kit as supplied and assembled



My unit as built. I added a power switch with LED and moved the audio detector pot to the case front panel. I also replaced the LED array with discrete LEDs.

ARRL proposes to provide present and future Technician licensees:

- Phone privileges at 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz
- RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters.

RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters.

Under the ARRL plan, the maximum HF power level for Technician operators would remain at 200 W PEP.

ARRL's petition points to the need for compelling incentives not only to become a radio amateur in the first place, but then to upgrade and further develop skills.

The same day that the FCC put ARRL's Technician Enhancement petition on public notice, it also invited comments on another [proposal](#), designated RM-11829, asking the FCC to create a "Tyro" license class that would require a minimal online examination and require mentoring by an Amateur Radio licensee of Technician class or higher. A "tyro" is a novice or a beginner. The petition was filed in August of 2017 by Gary A. Hampton, AD0WU, of Longmont, Colorado. Tyro licensees would earn operating privileges on 99 channels in a 70-centimeter "TyroSubBand." Applicants would have to be at least 11 years old. Hampton said in his petition that one goal would be "reliable, nationwide 70-centimeter interoperability" in the exclusive 430 - 440 MHz segment of the band.



Here's Billy Hallicrafters enthralled in his ham radio hobby while his classmates wait outside the shack- on their way to the high school drama club play. Will Billy complete his QSO in time to get to the play? Recognizable radios on Billy's desk are a SX-28 receiver from WW2 days on the right, with its matching speaker (DANGER sign) and a Heathkit VF-1 VFO at the furthest left. . These 3 pieces also reside in the W7OS Museum collection. The other equipment looks familiar- but I can't place it. Do any Bark readers know what the other vintage equipment is? If so... then submit your entry to the Bark and win 125 kilobytes of fame from W7OS. This photo is from the cover Boys Life magazine, Nov 1956. KR7W was a Boys Life magazine subscriber as a kid and remembers ham radio being featured quite often. Submitted by Rich KR7W.

RADIO CLUB of TACOMA

PROPERTY MANAGEMENT TEAM MARCH SALES

ITEM	PRICE	RCT #
1. Millen Grid Dip Osc.	\$150.00	3819
2. Tube Tester Meter	\$ 10.00	
3. Meter Tube Tester Jewel	\$ 10.00	
4. Heath Clock GS-1000	\$ 150.00	3706
11. Kenwood HF XCVR TS-450	\$ 300.00	3389
18. Yaesu HF PWR AMP FT-2100B	\$ 400.00	3827
20. ICOM HF XCVR IC-725	\$ 200.00	3810
25. Kenwood XTAL Filter YG-455C-1	\$ 75.00	3844
41. Suitcase with Tektronix scope camera	\$100.00	
44. HP VHF Signal Generator 608E	\$ 50.00	3851
56. HP Frequency counter 5230L	\$ 75.00	3868
57. Triplett VOM 360	\$ 100.00	3869
58. Kenwood HF XCVR TS-450S SN: 41200236	\$350.00	3872
65. ATO Interstate log sweep generator F77 SN: 941	\$ 75.00	3880
70. HP Frequency Counter 5328A SN: 2248A56070	\$ 100.00	3885
73. HP TRUE RMS METER 3403A SN: 1223A00525	\$ 50.00	3888
84. Comet Triplexer CFX-514	\$ 50.00	3902
94. TEN TEK HF XCVR UNI 6+	\$ 500.00	3913
94A. TEN TEK Power Supply OMNI PS - P/O # 94		3915
97. MFJ Ant Tuner MFJ-948	\$ 75.00	3922
99. Icom HF XCVR IC-701/PS IC-701PS	\$ 200.00	3924/3925
101. Timewave TNC Terminal DSP-9+	\$ 40.00	3929
102. Radioshack Power Supply 22-127E 12vdc/1.75A	\$25.00	3930

Please contact Red Cranefield, WB7EC, at WB7EC@w7dk.org OR any club PMT officer with questions or to purchase any of these items or to inquire about other items possibly in the club's inventory. We constantly get new inventory so if you need something in particular please ask. It may be available.

4th Wednesday Activity Night

Randy WB4SPB

Until a few years ago, RCT held two general meetings each month, on the 2nd and 4th Wednesday evenings. In 2014 the Club decided to hold general meetings only once per month. In place of the second meeting, we now hold a workshop on the 4th Wednesday of the month, at 7PM, in the Clubhouse classroom. We call this our "4th Wednesday Activity Night", or 4WAN.

Since the inception of 4WAN, we've seen presentations on hiking and portable operation, Field Day preparation, contest operation, new ham orientation, Morse code, HF antenna modeling and construction, propagation, circuit modeling with LT Spice, bread board circuit construction, and hand-held radio whip antenna performance, to name just a few subjects. Materials and handouts from several of these presentations are available to RCT members on the Club's website, here: https://w7dk.org/index.php?option=com_content&view=article&id=134&Itemid=267

We've also had numerous show-and-tell technical roundtables, where participants bring interesting gadgets, projects or problems to discuss with the group.

In the last year or so, it's been unusual to know very far in advance what 4WAN programs would be presented. Happily, we're better prepared for the next few months, so here are the upcoming topics:

March 27 - The early history of ham radio, from 1901 to 1928, when the electronic frontier was opening and its pioneers set out to create a communications revolution that, today, most people simply take for granted. Artifacts from the W7OS Antique Radio Museum will make an appearance. Presenter: Rich Patrick KR7W

April 24 - Surface mount soldering and de-soldering using hot air, a technique employed with today's circuit boards and the tiny components that enable ultra-miniature electronic products. This workshop will feature hands-on opportunities. Presenter: Steve Dightman AF7YD

May 22 - Field Day preparation. RCT makes a big Field Day effort each year, so we usually devote the 4WAN before Field Day to an orientation and assessment of our preparedness for the big event. Coordinator: Adam Barbera, W2NCC

We are always looking for interesting presenters and programs for 4th Wednesday Activity Night. If you are willing to enlighten an audience with a 60-to-90 minute ham-radio-related presentation, please send your proposal via email to info@w7dk.org.

Thank you.

The Quest for Boat Anchor Nirvana– The Heavyweight Champion- Hallicrafters SX-101A Receiver - by Rich KR7W

Around last December I read an article in *Electric Radio (ER) Magazine* that featured the **Hallicrafters SX-115 Receiver**. [A note for newer hams: ‘Boat Anchor’ is a ham radio term for an older, large and heavy radio, either a transmitter or receiver. ‘*ER Magazine*’ is a popular monthly publication for enthusiasts of these radios– military, commercial civilian, or home made] The SX-115 receiver, sold in 1961-64, was touted as the best of the best. So, I set out to purchase one. Other ‘in the know’ boat anchor aficionados alerted me that the SX-115 has become unobtainable, mostly because of the article in ER. Everybody wants one. Demand vs. supply equals a big bucks price tag. Dang! The ER article had mentioned that the SX-101A was a close second to the SX-115 and referenced a 4 part series of articles in ER Magazine on restoring the SX-101A; ‘The Heavyweight Champion’ by Ray Osterwald N0DMS.

The W7OS Museum’s collection of ER Magazines is where I found the articles. In the Club Library I found “Radios by Hallicrafters”, a collectors book that is very informative of all products built by Hallicrafters that sold from 1932 to 1974 as well as the history of the company.



The SX-101A measures 20" wide x 10" high x 16" deep compared to a IC-7300 of 10" wide x 4" high x 10" deep. Features include: each horizontal line in the slide-rule dial represents one ham band – which individually illuminates to remind the user which band is selected. There is no AM switch, but it has LSB-AM and USB-AM. The received audio sounds the same and can eliminate QRM either above or below the desired station. Notice the cool suicide spinner knob for tuning. The S-meter– upper L– the arched shaped graphic– illuminates as golden yellow, just like the classic radios of the late '30s and post WW2. \$399.99 in 1959.

Armed with some knowledge and an obsessive desire, I set out to find the SX-101A receiver for myself. Through my small circle of boat anchor aficionado ham radio acquaintances I ended up finding a ‘Twofer’ kind of deal on SX-101 receivers, a Mark 2 and a 101-A and one matching speaker. The Mark 2 was sold in 1957 and through improvements, it became the SX-101-A in 1959.

I’d say that the SX-101A is more of a Medium Weight Champ weighing in at 71 pounds– as compared to the Museum’s Globe Champion at 125 pounds and the Heathkit Apache at 110 pounds. After getting them home I plugged them in and took a listen. The 101A blew the GFCI in my shop, so an isolation transformer was used to get it to turn on. It works– but SSB

hams sound distorted and it has a hard time receiving weak stations. It’s older brother, the 101 Mk 2 seems much better– has good audio and can pick up the weaker stations. The Twofer Deal worked out. The 101A goes to the work bench for restoration while listening to HF CW and SSB stations on the 101 Mark 2 in my workshop.

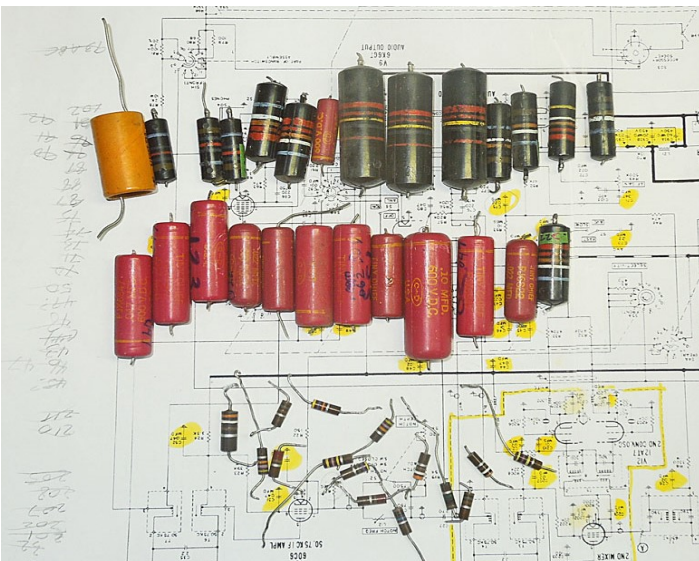
The rest of this article mostly documents with photos what I’ve done in my attempt to make my SX-101A the second best of boat anchor receivers.



Photo to the Left shows the radio out of its cabinet, upside down, to reveal all of the components.

The black and red tubular gizmos are capacitors, state of the art design beginning in the '30s but destined to self destruct after 50 years. These red Little Chief and black Bumble Bee caps were all changed out and later tested to see if it was all worth it. There are round ceramic capacitors (zoom in to see them) that also were tested by lifting one wire and connecting up a Heathkit

capacitor checker. Only a few of these caps were replaced. Resistors were checked in circuit but some wires had to be removed from the circuitry to get an accurate reading. The square black gizmo under the chassis in

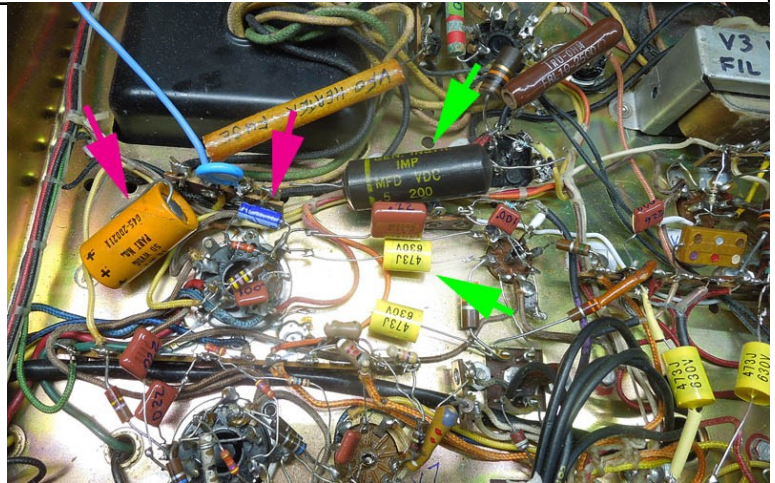


lower corner is the Power Transformer– the heart of the 300 Volt DC and 6 Volt AC power supply. Vacuum tubes take a lot of volts.

The receiver couldn't be turned upside down without it crushing components on top of the chassis– so plywood 'ears' were fashioned and screwed to the chassis sides to support it. This addition made the chassis easy to rotate bottom to top to bottom which has been done about 200 times so far. The lower left photo shows about 3/4 of the capacitors replaced and half of the resistors (small items on bottom)... all lined up on the radios schematic– the road map of electron and signal flow.

Old capacitors fail due to heat and the high voltage applied to them. In this radio it was up to 300 volts. The liquid chemicals in the capacitor dried up and caused 'leakage' which reduces signals getting to where they're supposed to be. The Heathkit capacitor checker was used to check for leakage.

Right photo shows modern day capacitors vs the old school low tech caps from the late 30s. Colored arrows point to old vs new of the same value. Lower photo shows the original capacitors



and resistors on the Selectivity Switch— the equivalent of DSP Bandwidth in the IC-7300. The fragile switch— rests on a soft towel to protect it from damage. It had to be removed from the front panel to gain access to the components. All capacitors and resistors (whether they needed it or not) were changed out due to the difficult accessibility.

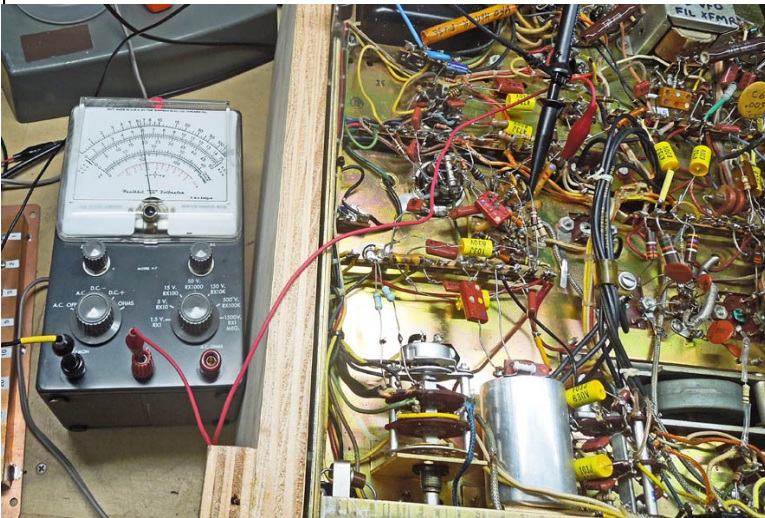
When all questionable components were changed out. It was time for Power Up— the Moment of Truth. There was a short puff of smoke— a small scare. But after hours of trying to figure it out... there was no trouble found.



Siglent Function Generator sends AM signal into 101A's Antenna jack. Siglent Oscilloscope shows resultant waveform at the 50KC IF path. It seems to look like the ARRL Handbook says it should.

Now time for the alignment per the Hallicrafters service manual where some of the steps were darn confusing. In the ER Magazine SX-101A Article— some of Hallicrafters procedures were cleared up by author, Ray N0DMS and after watching some Youtube videos by W2AEW and consulting my 50 year old text book from tech school. Then using mostly modern test equipment- signals were sent,

received, and components adjusted and experiments performed.



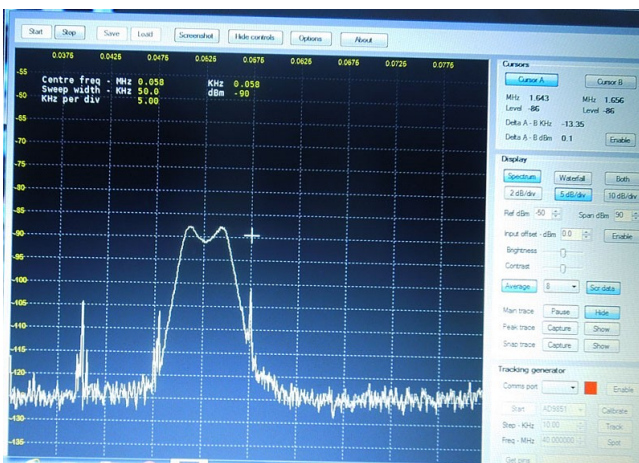
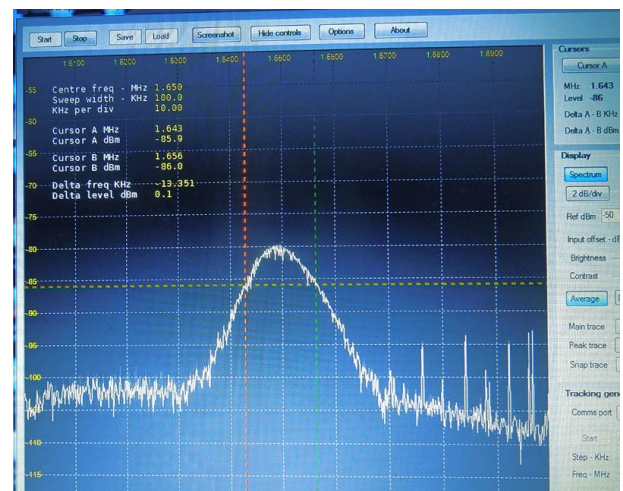
Left photo shows testing Automatic Gain Control circuitry using an old Heathkit VTVM (circa 1957) instead of my usual Fluke 87 Volt-Ohmmeter. In this case the VTVM is preferred because the super-duper Fluke-O-Meter decreases the signal level which affected the test results.

Photos below show laptop screen of a SDRPlay software defined radio receiver running a recently made available Spectrum Analyzer program. The first image shows a sweeping signal at the Antenna Jack and measured at the 1650

Kilo-Cycle Intermediate Frequency test point. Adjustments of tuning coils can be seen on the screen instead of measuring the level of a tone across the radio's speaker. This way is more precise and I learned a few things along the way.

Next photo shows the 50 Kilo-Cycle– second stage- Intermediate Frequency output where the bandwidths of selectivity are derived.

This SX-101A Receiver is not ready for Prime Time in the ham shack just yet. It seems to receive signals pretty well and sounds good, but there's an issue with the S-meter. A known accurate S-9 signal reads S-7. S-9+20 reads S-7. Cant have that... so there will be more nose in the book work, further understanding, experimenting, and hoping and wishing to do. So far I've learned quite a bit, tested my patience, and have had fun in this Quest for Boat Anchor Nirvana. Keep your filaments lit. Best Regards.... Rich KR7W



The Hallicrafters SX-115 as mentioned above—*editor*

Editor beginners note: Kilo-Cycles, Mega-Cycles, etc. are former terms replaced by Kilohertz, Megahertz etc.

**Radio Club of Tacoma
General Meeting Notes
February 2, 2019**

The Secretary was absent from the General Meeting and there were no volunteers to take minutes. Graciously Larry KD4VOM provided a tape recorder to capture the proceedings. The following meeting notes have been gleaned from the recording, a copy of which will be filed (electronically) with these minutes.

Meeting called to order at approximately 1330 PST by President Dave W7UUU at **Tacoma Eagles Aerie #3, 4810 South Tacoma Way**

Officers and Directors Present have not been determined.

___	President	Dave Ellison W7UUU
___	Vice President	Mike Mikuchonis W7XTZ
___	Treasurer	Steve Dightman AF7YD
___	Board	Red Cranefield WB7EC
___	Board	Phil Pia K7PIA
___	Board	Bruce Hanson WE7P
___	Board	Adam Barbera W2NCC
___	Board	Paul Matney W7PFU

Pledge of Allegiance led by Dave W7UUU

Welcome and Self-Introductions

Guests Present were new member Peter KJ7DDX, and Rick (AG7RX) and Mike (call unknown)
New Calls
Self-introductions were conducted.

Health and Welfare

Silent Keys and Illness Worth W7WG is reported to be home from the hospital and convalescing.

Secretary's Report Dave commented upon the receipt of the usual stuff: periodicals, utility bills, bank statements, membership renewals and insurance policies. Future filings include Secretary of State Corporation Renewal and IRS Form 990-N (before May)

Treasurer's Report Steve AF7YD reported successful reconciliation of bank statements with club ledger completed for the last 2 years. Work is still in progress refining the accounting techniques and completing the migration to Quickbooks.

President's Report Dave W7UUU had nothing to report that was noteworthy.

Committee / Activity Reports

Membership On behalf of George K7GRS, Greta KF7KSW reported membership stood at 216 current paid members. Several brand new members were at the meeting that were not yet included in the tally.

Training Tech License Training Feb 9/10
General License Training Jan 17 through Mar 21. Another class will likely be scheduled April-June.
RCT personnel conducted training of about 37 individuals for the Pierce County EOC. Club member Chris N7CPM conducted a class for Alaska Airline employees resulting in 6 new hams being granted Tech licenses and 1 achieving his General license.

VE Report The next VE Session will be held Feb 12.

HF Operations Phil K7PIA reported that the Flex is back from repair, installed, and ready for use. A USB-compatible control knob for the Flex has been acquired and configured for use. Al N7OMS reported that the W7OS Doc Spike station participated as a special event station on four occasions in the SKCC K3Y event. Al also reported that the HF committee had met with Rich KR7W regarding proposals for grounding/bonding of equipment and antennas. Chris N7CPM advised the membership that one of the main goals of the HF committee is to develop the HF room in to a model of best practices for safety and operability considerations.

Repeater Ops No anomalies reported. The Ruston Senior Center group will be using the Bates .21 repeater periodically for nets.

IT Report Randy WB4SPB reported that all systems are operating normally.

Museum Ongoing reorganization of museum assets.

Facilities Mgmt Adam W2NCC talked about the new HF vertical antenna. Work is continuing on door refurbishment and new coax installations. Shed construction details are still being developed.

Prop Mgmt Red WB7EC noted that we recent received a large donation from of components from an estate. Much of that equipment will be used to develop kits for future workshops. Sales in January were \$414. Raffle was around \$50.

4th Weds Activity Night TBD

New Business

There is an American Legion Special Event on March 9. Same date as Mike and Key hamfest.

Unfinished Business and Announcements

Soliciting hosts for Info Booth upstairs at the Mike and Key event to be held Saturday, March 9. Contact Secretary Mike W7MWF

Field Day upcoming June 22/23. More info to follow.

Summer picnic last Sunday in August. Ft Steilacoom

Open House at W7UUU/N7ANN on July 13.

Program This month's was about "The Renaissance of CW". Chris N7CPM gave his insights into his use and application of CW.

Tuning and Traffic

Dave N7HT reported a misunderstanding with another ham regarding QRP operations
Randy WB4SPB reminded members that every Wednesday morning at 0730 on 3.540 Megacycles the Pacific Nor'west QRP Net meets.

Door Prize A field strength meter was won by ticket 594. Name and call unknown.

Raffle Prize A Baofeng HT with an aftermarket antenna was won by N7RHD.

Adjournment was shortly before 1500.

I apologize in advance for any errors or omissions due to my absence. Again, thanks to Dave and Larry for their efforts to successfully memorialize the meeting.

Respectfully submitted
Mike W7MWF

**Radio Club of Tacoma
Board of Directors Meeting Minutes
February 6, 2019**

Meeting called to order at 1855 PST by Vice President Mike W7XTZ.

Officers and Directors Present

Vice President	Mike Mikuchonis W7XTZ
Secretary	Mike Finnie W7MWF
Board	Bruce Hanson WE7P
Board	Paul Matney W7PFU
Board	Adam Barbera W2NCC
Board	Red Cranefield WB7EC
Board	Phil Pia K7PIA

Quorum? A quorum was seated. There were 10 members on the sign-in sheet.

Silent Key or Illness? It was reported that Worth W7WG is home from the hospital and convalescing.

Approval of Minutes of January 2, 2019 Board Meeting Approved as circulated.

Secretary's Report (W7MWF) Usual Correspondence: Building Insurance Renewed, Memberships, Utilities, Subscriptions. Bank Statements. DNR Crawford Mountain lease paid for 2019 (\$100).

Treasurer's Report (AF7YD) On behalf of Steve AF7YD, Mike W7MWF reported Steve was making good progress on the migration of accounts to QuickBooks. All current bills are paid and deposits submitted.

Committee / Reports;

Membership George K7GRS reported we currently have 217 paid members and renewals are still trickling in.

Training Tech License Training 9/10
General License Training Jan 17 through Mar 21
VE Testing Feb 12

Library A supplemental report from AD7AV was read into the record by W7MWF. A copy of Doug's report is filed with these minutes.

Info Tech Randy WB4SPB reported all IT gear is working A-OK,, He was contacted via the website by Pat WI8M, who now lives in Gig Harbor. Randy extended an invitation to come visit the club.

HF Operations Phil K7PIA reported that the Flex is back in service and is working fine with a new control knob installed. The K3 and Pro III are functioning fine also. A new vertical antenna

has been installed near the garage. At their committee meeting on Jan 20, plans for grounding and bonding, plus operator station ergonomics was discussed.

Repeater Ops No report .

Facilities Mgmt Adam W2NCC reported that the rodent problem is ongoing and reminded folks to not take/leave food and drink lying about the clubhouse. The Subpanel committee will be meeting soon to schedule upgrades and modifications.

Property Mgmt Red WB7EC reported January sales of \$414 and Raffle sales of \$44. The surplus property disposition request circulated by Red was approved. A copy of the itemized list is filed with these minutes.

Museum Randy WB4SPB reported ongoing reorganization of the museum facility.

Weds Workshop Topic TBA.

General Meeting The presentation topic at the General Meeting held on February 2 was about the resurgence of operating using CW Mode.

Unfinished Business Additional appointment of committee chairs/co-chairs was tabled until the President was in attendance.

Mike W7MKE updated the Board and members regarding progress towards building a storage shed. He has compiled a materials list and will soon be posting that and soliciting sponsors for donations of materials to help offset the cost of the project.

New Business

Field Day Adam W2NCC reported that planning for 2019 Field Day is underway.

Activity Reports and Discussion Topics

Mike and Key Hamfest March 9.

Announcements None made.

Adjournment The meeting was adjourned at 1930 PST.

THE CLUB LINEUP

CLUB OFFICERS

President: Dave Ellison, W7UUU - w7uuu@w7dk.org

Vice Pres: Mike Mikuchonis, W7XTZ - w7xtz@w7dk.org

Secretary: Mike Finnie, W7MWF - w7mwf@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd@w7dk.org

5 BOARD MEMBERS

Bruce Hanson, WE7P - we7p@w7dk.org

Paul Matney, W7PFU - w7pfu@w7dk.org

Adam Barbera, W2NCC - w2ncc@w7dk.org

Red Cranefield, WB7EC - wb7ec@w7dk.org

Phil Pia, K7PIA - k7pia@w7dk.org

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MEMBERSHIP INFO: FULL (licensed) and ASSOCIATE (non licensed) is \$35 per calendar year. \$30 for Licensed Seniors (65 and over). Licensed family members at same address pay \$20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are \$20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for.. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

www.w7dk.org - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

RADIO CLUB REPEATERS

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia @ 1500 ft. ASL)

Central Tacoma: 440.625 + PL=103.5


North Tacoma: 145.21 – PL=141.3

PRINT PAGE AND CUT OUT AND GIVE TO SANDWICH MAKER

Radio Club of Tacoma
PO Box 11188
Tacoma, Washington 98411
USA


W7DK

In association with




Menu


All Sandwiches \$6—including a bag of chips. Your choice of condiments. Cash only! Tax Included—tip is extra!

☐


Egg Salad Sandwich—check condiments & options below

☐


Turkey Sandwich—check condiments & options below

☐


Ham Sandwich—check condiments & options below

All sandwiches served on fresh Hoagie Rolls

☐ Cheese

☐ Lettuce

☐ Onions

☐ Tomatoes

☐ Pickles

☐ Mayonnaise

☐ Mustard

☐ **Recurring Order**

Name:

Call:

Above you will see the Radio Club of Tacoma's lunch menu for the Lunch Sandwich Special prepared and served by the Eagles Club prior to the General Meeting each first Saturday of the month. To make ordering easier simply cut out the menu above, fill it in, and give it to the sandwich maker. Please arrive around 12:30pm to ensure you get a fresh sandwich and have time to eat it. *They are indeed yummy and very fresh. P.J.H. N7PH editor.*